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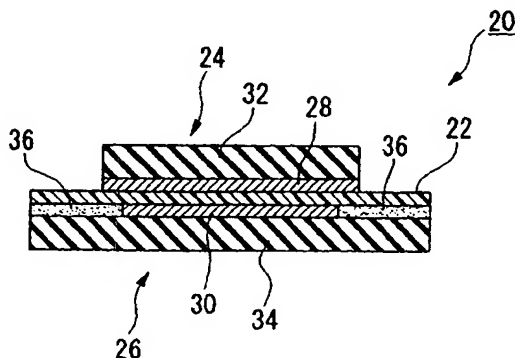
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(54) **Membrane electrode assembly and fuel cell**

(57) In order to provide a membrane electrode assembly and a fuel cell in which the thickness of the solid polymer electrolyte membrane is thin by enhancing self-protection of the solid polymer electrolyte membrane, a membrane electrode assembly (20) comprises a solid polymer electrolyte membrane (22) and a pair of gas diffusion electrode layer (24 and 26) having catalyst layers (28 and 30) and gas diffusion layers (24 and 26). The

catalyst layers of the gas diffusion electrode layer sandwich the solid polymer electrolyte membrane, one surface of the solid polymer electrolyte membrane is covered by the gas diffusion electrode layer (26) and the other surface of the solid polymer electrolyte membrane extends over the gas diffusion electrode layer (24), and ends of the catalyst layer of one gas diffusion electrode layer are disposed to be offset to ends of the catalyst layer of the other gas diffusion electrode layer.

**FIG. 1**





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Application Number  
EP 02 01 9295

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Place of search		Date of completion of the search	Examiner
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<p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p>			
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EPO FORM 1503 03 02 (P4/Co1)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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